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The invention relates to a process of producing gasoline with a low sulphur content from a feedstock containing sulphur. This process comprises at least one step a1 of selectively hydrogenating the diolefins and acetylenic compounds, at least one separation of the gasoline (step b) obtained at step a1 into at least three fractions, at least one step c1 of treating the heavy gasoline separated at step b on a catalyst enabling the unsaturated sulphur compounds to be at least partially decomposed or hydrogenated and at least one step d to remove the sulphur and nitrogen from at least one intermediate fraction, followed by catalytic reforming.

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